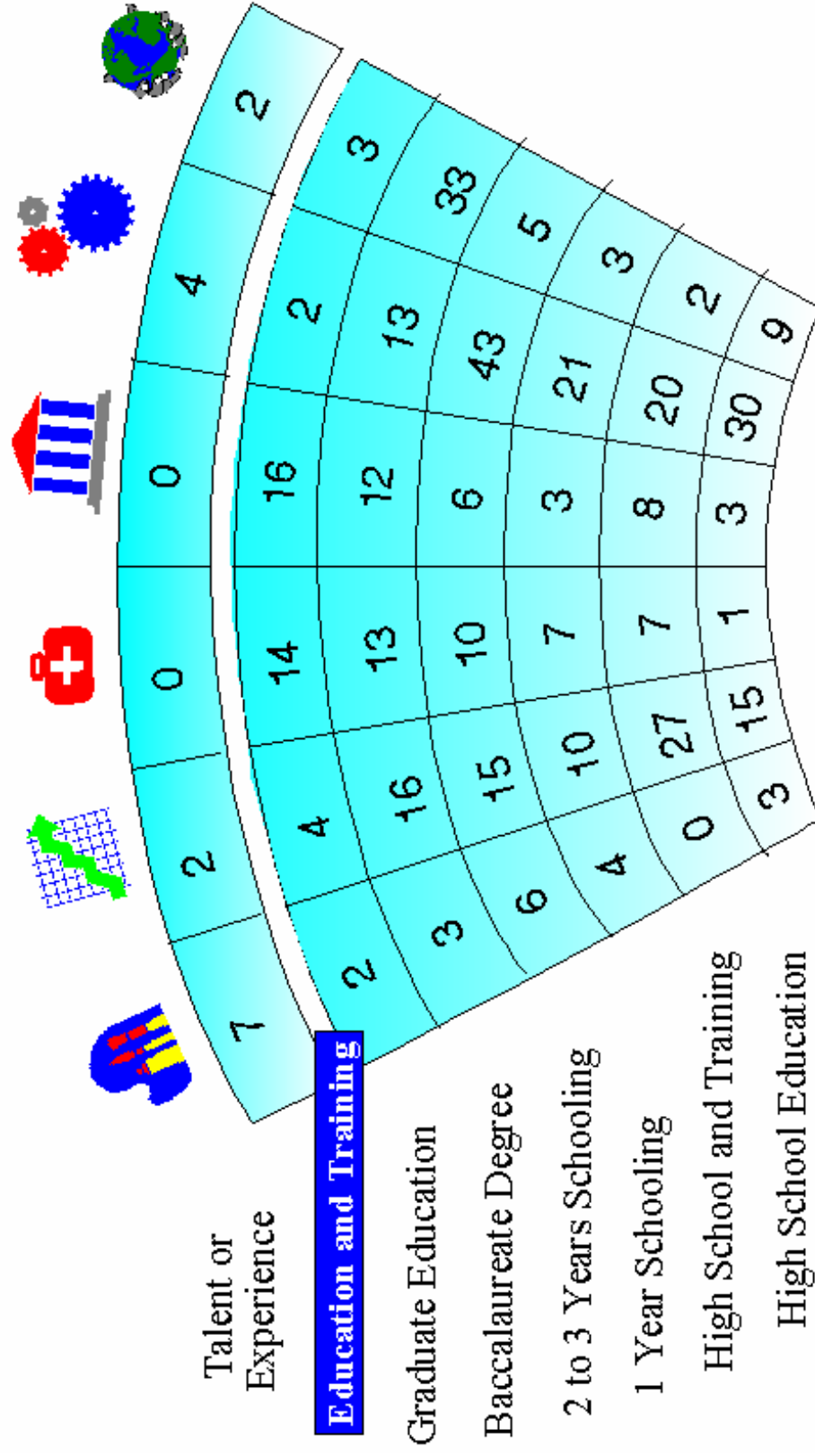


# NUMBERS OF CIS OCCUPATIONS IN EACH CAREER PATHWAY



# Career Information System

## Occupation Titles

### Arts and Communications

*High school education:*

Floral Designers  
Handcrafters  
Models

*1 year of full-time schooling/2 years  
apprenticeship:*

Film and Video Makers  
Free-lance Writers  
Photographers  
Radio and Television Broadcasters

*2 to 3 years schooling/3 to 4 years  
apprenticeship:*

Broadcast Technicians  
Clothes Designers and Patternmakers  
Graphic Artists and Designers  
Interior Designers and Decorators  
Taxidermists  
Writers and Editors

*Four-year degree or equivalent:*

Interpreters and Translators  
Public Relations Workers  
Technical Writers

*University graduate education or equivalent:*

Architects  
Landscape Architects

*High level of talent or experience required:*

Actors  
Dancers  
Fine Artists  
Musicians  
Performing Artists  
Professional Athletes

### Business and Management

*High school education:*

Bartenders  
Buspersons  
Cashiers and Grocery Checkers

Collectors  
Counter Attendants  
Freight Handlers  
Grocery Baggers  
Kitchen Helpers  
Messengers  
Newspaper Carriers  
Packers and Wrappers  
Short Order Cooks  
Stock Clerks  
Telephone Operators  
Waiters and Waitresses

*High school education & short training period:*

Adjustment Clerks  
Automobile Salespeople  
Bank Tellers  
Bookkeepers  
Business Services Salespeople  
Clothing Salespeople  
Counter and Rental Clerks  
Credit and Loan Clerks  
Data Entry Operators  
Dispatchers  
General Office Clerks  
Hotel Desk Clerks  
Insurance Policy and Claims Clerks  
Library Assistants  
Mail Carriers  
Postal Clerks  
Receptionists  
Restaurant Managers  
Retail Salespeople  
Route Salespeople  
Sales Representatives  
Secretaries  
Shipping and Receiving Clerks  
Stenographers  
Ticket Agents  
Travel Agents  
Typists and Word Processors

*1 year of full-time schooling/2 years  
apprenticeship:*

Accounting and Statistical Clerks  
Auto Parts Counter Workers  
Chefs and Dinner Cooks  
Computer Operators  
Customer Service Representatives  
Fast Food Service Managers  
Insurance Agents

Real Estate Agents  
Small Business Operators  
Tax Preparers

*2 to 3 years schooling/3 to 4 years  
apprenticeship:*

Appraisers  
Buyers and Purchasing Agents  
Computer Support Specialists  
Computer Programmers  
Construction Managers  
Cost Estimators  
Court Clerks  
Hotel and Motel Managers  
Legal Secretaries  
Loan Officers  
Medical Records Technicians  
Medical Secretaries  
Office Managers  
Sales and Service Managers  
Shorthand Reporters

*Four-year degree or equivalent:*

Accountants and Auditors  
Actuaries  
Association and Union Executives  
Business Executives and Managers  
Business and Marketing Teachers \*  
Claims Adjusters and Examiners  
Financial Managers  
Management Analysts and Consultants  
Military Officers  
Personnel Managers  
Property and Real Estate Managers  
Public Administrators  
Recreation Directors  
Securities Salespeople  
Systems Analysts  
Underwriters

*University graduate education or equivalent:*

Education Administrators  
Health Services Managers  
Market Research Analysts  
Mathematicians and Statisticians

*High level of talent or experience required:*

Farmers and Ranchers  
Production Managers

## **Health Services**

*High school education:*

Animal Caretakers

*High school education & short training period:*

Electrocardiograph Technicians  
Electroencephalograph Technicians  
Health Technicians  
Home Health Aides  
Nursing Assistants  
Pharmacy Technicians  
Psychiatric Aides

*1 year of full-time schooling/2 years  
apprenticeship:*

Dental Assistants  
Emergency Medical Technicians  
Licensed Practical Nurses  
Medical Assistants  
Opticians  
Phlebotomists  
Surgical Technologists

*2 to 3 years schooling/3 to 4 years  
apprenticeship:*

Dental Laboratory Technicians  
Denturists  
Funeral Directors and Embalmers  
Massage Technicians  
Medical Laboratory Workers  
Medical Records Technicians  
Radiologic Technologists  
Registered Nurses  
Respiratory Therapists  
Veterinary Technicians

*Four-year degree or equivalent:*

Athletic Trainers  
Biologists  
Chemists  
Dental Hygienists  
Dietitians  
Health Occupations Teachers\*  
Life Scientists  
Occupational Therapists  
Physical Therapists  
Physician Assistants  
Recreational Therapists  
Registered Nurses  
Sanitarians

*University graduate education or equivalent:*

Chiropractors  
Dentists  
Family Physicians  
Health Services Managers  
Internists  
Nurse Anesthetists  
Nurse Practitioners  
Obstetricians and Gynecologists  
Optometrists  
Pediatricians  
Pharmacists  
Physicians  
Podiatrists  
Psychiatrists  
Speech Pathologists & Audiologists  
Surgeons  
Veterinarians

## **Human Resources**

*High school education:*

Recreation Attendants  
Social Service Aides  
Security Guards

*High school education & short training period:*

Child Care Workers  
Corrections Officers  
Firefighters  
Forest Firefighters  
Law Enforcement Officers  
Library Assistants  
Military Enlisted Personnel  
Teacher Assistants

*1 year of full-time schooling/2 years apprenticeship:*

Flight Attendants  
Hair Stylists  
Preschool Teachers

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Detectives and Investigators  
Graphic Information Specialists  
Legal Assistants  
Occupational Trainers  
Recreation Guides  
Recreation Leaders

*Four-year degree or equivalent:*

Athletic Trainers  
Clergy  
Coaches  
Compliance Officers and Inspectors  
Conservation Officers  
Elementary and Secondary Teachers  
Family and Consumer Science Teachers \*  
Librarians  
Parole and Probation Officers  
Public Administrators  
Social Workers  
Special Education Teachers

*University graduate education or equivalent:*

Addiction Counselors  
Anthropologists  
Archivists and Curators  
Counselors  
Economists  
Education Administrators  
Educational Program Specialists  
Geographers  
Lawyers  
Market Research Analysts  
Psychologists  
Recreation Directors  
School Counselors  
Social Scientists  
Sociologists  
University and College Teachers

## **Industrial and Engineering**

*High school education:*

Bus and Taxi Drivers  
Cannery and Frozen Food Workers  
Construction Laborers  
Domestic Service Workers  
Electronics Assemblers  
Food Processing Workers  
Forge Shop Workers  
Fork Lift Operators  
Foundry Workers  
Insulation Installers  
Janitors  
Laundry and Dry Cleaning Workers  
Log Handling Workers  
Lumber and Veneer Off Bearers  
Lumber and Plywood Mill Laborers  
Lumber Production Workers  
Metal Refining Workers  
Petroleum Helpers  
Production Painters and Finishers  
Pulp and Paper Workers

Roofers  
Room Cleaners  
Service Station Attendants  
Sewing Machine Operators  
Shoe Repairers  
Textile Machine Operators  
Upholsterers  
Vehicle Cleaners  
Veneer and Plywood Workers  
Woodworking Machine Operators

*High school education & short training period:*

Aircraft Assemblers  
Airline Ground Crew Workers  
Bakers  
Deck-Hands  
Floor and Carpet Layers  
Glaziers  
Local Truck Drivers  
Long Haul Truck Drivers  
Petroleum Processors  
Photofinishers  
Printing Production Workers  
Production Assemblers  
Quality Control Inspectors  
Rotary Drillers  
Rubber and Plastics Fabricators  
Rubber and Chemical Processors  
Semiconductors Processing Operators  
Small Engine Mechanics  
Surveyor Helpers

*1 year of full-time schooling/2 years apprenticeship:*

Appliance Repairers  
Auto Body Repairers  
Building Maintenance Workers  
Carpenters  
Cement Masons  
Coin and Vending Machine Repairers  
Farm Equipment Mechanics  
Hazardous Materials Technicians  
Heavy Equipment Operators  
Line Installers and Repairers  
Lumber and Plywood Graders  
Machine Tool Operators  
Meat Cutters  
Mine Workers  
Painters and Paperhangers  
Plasterers and Drywall Installers  
Saw Filers and Tool Sharpeners  
Science Technicians  
Telephone Installers and Repairers  
Water and Wastewater Plant Operators  
Welders

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Aircraft Technicians  
Automobile Technicians  
Boilermakers  
Bookbinders and Bindery Workers  
Bricklayers  
Broadcast Technicians  
Cabinetmakers  
Cartographers  
Computer & Office Machine Repairers  
Construction Managers  
Drafters  
Electricians  
Electronics Technicians  
Electronics Testing Technicians  
Engineering Technicians  
Gunsmiths  
Heating and Cooling System Technicians  
Ironworkers  
Jewelers  
Laser Technicians  
Locksmiths  
Machinists  
Metalworking Patternmakers  
Millwrights  
Molders  
Numerical Control Tool Programmers  
Numerical Control Machine Operators  
Pilots and Flight Engineers  
Plumbers and Pipe fitters  
Precision Instrument Repairers  
Prepress Workers  
Printing Press Operators  
Radio and TV Service Technicians  
Semiconductor Technicians  
Sheet Metal Workers  
Ship fitters  
Solar Technicians  
Stationary Engineers  
Surveyors  
Tailors and Garment Fitters  
Tool and Die Makers  
Truck and Heavy Equipment Mechanics

*Four-year degree or equivalent:*

Aerospace Engineers  
Agricultural Engineers  
Air Traffic Controllers  
Chemical Engineers  
Civil Engineers  
Construction & Building Inspectors  
Electrical and Electronic Engineers  
Engineers  
Environmental Engineers  
Industrial Engineers

Mechanical Engineers  
Petroleum Engineers  
Technology and Trade Teachers\*

*University graduate education or equivalent:*

Mathematicians and Statisticians  
Urban and Regional Planners

*High level of talent or experience required:*

Production Managers  
Railroad Conductors and Brakers  
Railroad Engineers  
Ship Officers and Engineers

## **Natural Resources**

*High school education:*

Animal Caretakers  
Choker Setters  
Commercial Fishers  
Fallers and Buckers  
Farm and Ranch Hands  
Forest Conservation Workers  
Groundskeepers and Gardeners  
Horticultural Workers  
Seasonal Farm Laborers

*High school education & short training period:*

Food Processing Workers  
Pest Control Workers

*1 year of full-time schooling/2 years apprenticeship:*

Farm Equipment Mechanics  
Forestry Technicians  
Science Technicians

*2 to 3 years schooling/3 to 4 years apprenticeship:*

Fish and Wildlife Technicians  
Hazardous Materials Technicians  
Landscapers  
Park Rangers  
Veterinary Technicians

*Four-year degree or equivalent:*

Agricultural Engineers  
Agricultural Science and Technology Teachers\*  
Agricultural Scientists  
Agronomist  
Animal Scientist  
Biochemist  
Biologists  
Botanist  
Chemists  
Conservation Officers  
Earth Scientists  
Ecologists  
Environmental Engineers  
Environmental Occupations  
Food Technologists  
Foresters  
Geographers  
Geographic Information Specialists  
Geologists  
Horticulturist  
Hydrologists  
Life Scientists  
Marine Biologists  
Meteorologists  
Microbiologist  
Oceanographers  
Physical Scientists  
Physicists  
Plant Scientist  
Range Conservationists  
Soil Scientists  
Wildlife Biologists  
Zoologist

*University graduate education or equivalent:*

Astronomers  
Landscape Architects  
Veterinarians

*High level of talent or experience required:*

Farmers and Ranchers  
Water and Wastewater Plant Operators

*\* Specialties of Elementary and Secondary Teachers*

# GET A HEAD START ON YOUR CAREER THROUGH TECH PREP

## What is Tech Prep?

Tech Prep is designed to give all students, including the traditional college bound student, a focus on their future. It links high school with college and careers, and professional-technical with academic education.

Tech Prep's key components help raise expectations and standards for all students:

### **A Seamless System:**

High school and college instructors work cooperatively to design Tech Prep program content. The result is a seamless system in which Tech Prep students can move without having to repeat courses.

### **Career Guidance:**

Guidance to help students discover and apply their strengths and abilities toward career and educational goals is key to Tech Prep's success.

### **Integrated Teaching:**

Tech Prep programs stress integrated teaching. Teachers who learn to effectively integrate instructional activities see students success and motivation rise.

### **Career Pathways:**

Tech Prep programs function well in schools where the curriculum is structured around career clusters. Career Pathways offer that structure and provide parents and students an easy way to plan an educational path through and beyond high school.



# **CAREER PLAN CHECKLIST**

Planning is best accomplished with the help of parents, teachers, guidance counselors and other adults who know and care for the student. Students and parents should study course offerings carefully and use them as guides for high school registration and postsecondary planning. Keep the basic requirements for graduation and postsecondary admissions in your plan and use the following checklist. Guidance counselors and the Career Education Coordinator are available to students to assist in the career planning process.

## **Ninth Grade**

- Along with your student, plan a sequence of courses related to educational and career interests.
- Review your student's educational skills with appropriate faculty.
- Continually discuss career plans with your student.
- Review graduation and postsecondary college/university entrance requirements with your student.
- Review your student's tenth-grade educational plan and provide encouragement to succeed.
- Review your student's Test of Achievement and Proficiency (TAP).

## **Tenth Grade**

- Check the date for PLAN (Pre-ACT). It is good preparation for the ACT and provides interest/career information.
- Check your place of employment for available employer-related scholarship information to find out about requirements.
- Review your student's eleventh-grade educational plan and schedule.
- Continue to encourage excellence in both course work and co-curricular activities.

## **Eleventh Grade**

- Check to make sure your student is completing the district and high school graduation requirements.
- (11th & 12th grades) Check for college entrance test (PSAT, ACT, SAT), CPT at professional-technical school for professional-technical program - dates and registration deadlines.
- Check on specific entrance requirements (such as course and test scores) for schools which your student may wish to attend.
- (11th & 12th grades) Check on scholarship and financial aid opportunities.
- (11th & 12th grades) Attend college and financial aid presentations.
- (11th & 12th grades) Continue to encourage your student.
- Encourage campus visitations and participation in any kind of post secondary orientation activity.
- Review graduation requirements.
- Check your student's twelfth-grade educational plan and schedule.
- For student athletes, review National Collegiate Athletic Association (NCAA) eligibility requirements.



## **Twelfth Grade**

- Decide whether your student needs to take or re-take the ACT or SAT.
- Have your student check due dates for scholarship applications.
- Attend career/college fair with your student.
- Pick up a Financial Aid Form (FAFSA) and assist your student in completing it.
- Make sure you know each college/university/technical school's application deadline for both admission, financial aid, and scholarships.
- Remind your student about what is included in the job search, especially first impressions, resumes, and interviewing skills.

## Education-to-Career

K-6		7-8	Student Learning Plan (SLP)	9-10	11-12	Post	Success in the Workplace
		Explore - Expand		Plan – Set Goals	Decide-Apply	High School	
<i>Integrated Academics</i>  Career Awareness, Interpersonal Skills and Problem Solving		<i>Integrated Academics</i>  Career Exploration, Lifestyle Choices, Career-Training Opportunities, and Workplace Skills		<i>Integrated Academics</i>  Self Awareness, Assessment of Self and Workplace, Job Search Skills, Job Shadowing, and Professional-Technical Education  Workplace Skills	<i>Integrated Academics</i>  Professional-Technical Education and Work Based Learning  Workplace Skills	<i>Options:</i>  College of Technology, Military, Apprenticeship, University, or Work Place	
Fantasy - Awareness – Exploration				Exploration - Preparation - Specialization			
Parental Involvement							

Idaho's Career Development Program based on the  
Idaho Comprehensive Guidance and Counseling Program Model

Name \_\_\_\_\_

## Sample High School 4 Year Educational Plan

Class of \_\_\_\_\_

### 9th Grade

Semester 1	Semester 2
1. English 9	1. English 9
2. Math -	2. Math -
3. Earth Science	3. Earth Science
4. Reading	4. World Geography
5. Keyboard	5. P.E. *
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Pathway I'm Considering: \_\_\_\_\_

\*P.E. classes can be taken at whatever grade level works best for you.

### 10th Grade

Semester 1	Semester 2
1. English 10	1. English 10
2. World History	2. World History
3. Biology	3. Biology
4. Math -	4. Math -
5. P.E. *	5. Health
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Pathway I'm Considering: \_\_\_\_\_

### 11th Grade

Semester 1	Semester 2
1. English 11	1. English 11
2. U.S. History	2. U.S. History
3. Communications	3. Career Pathways
4. Math (recommended)	4. Math (recommended)
5. Science (recommended)	5. Science (recommended)
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Major I'm Considering: \_\_\_\_\_

### 12th Grade

Semester 1	Semester 2
1. English 12	1. English 12
2. U.S. Government	2. U.S. Government
3. Consumer Economics	3. P.E. *
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.

End of Year GPA \_\_\_\_\_

Career Major I'm Considering: \_\_\_\_\_

## EXTRACURRICULAR ACTIVITIES

Activity/Office Held/Responsibility


Activity/Office Held/Responsibility


## TRANSITION PLAN

☐ Full-Time Employment

☐ Professional-Technical School

☐ Apprenticeship

☐ Two-year College

☐ Military

☐ Four-year College

☐ Undecided

☐ Other

Post-Secondary Schools I'm Considering \_\_\_\_\_

## PARENT APPROVAL

Date \_\_\_\_\_ Parent/Guardian Signature \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Student Signature \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

Date \_\_\_\_\_ Revised \_\_\_\_\_

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